

**To:** OSWER OSRTI IO[OSWER\_OSRTI\_IO@epa.gov]; Dreyfus, Melissa G.[Dreyfus.Melissa@epa.gov]; Ammon, Doug[Ammon.Doug@epa.gov]; Jeng, Richard[Jeng.Richard@epa.gov]; Fitz-James, Schatzi[Fitz-James.Schatzi@epa.gov]; Scozzafava, MichaelE[Scozzafava.MichaelE@epa.gov]; Stalcup, Dana[Stalcup.Dana@epa.gov]; Wells, Suzanne[Wells.Suzanne@epa.gov]; Zaragoza, Larry[Zaragoza.Larry@epa.gov]  
**From:** Stalcup, Dana  
**Sent:** Thur 10/15/2015 5:46:34 PM  
**Subject:** FW: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

FYI, looks like this is going out today

Dana Stalcup

Director, Assessment and Remediation Division

OSWER/Office of Superfund Remediation and Technology Innovation (OSRTI)

Desk – 703-603-8702

Cell – 202-309-5473

**From:** StClair, Christie  
**Sent:** Thursday, October 15, 2015 1:37 PM  
**To:** Deitz, Randy  
**Cc:** Stalcup, Dana; Ostrander, David; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Zito, Kelly; Keener, Bill; Gray, David; Harrison, Melissa  
**Subject:** Re: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

Thank you. Can someone in R8 help me track down David Ostrander for his approval? It's the last one we need.

**Christie St. Clair**

Office of Public Affairs

Environmental Protection Agency

o: 202-564-2880

m: 202-768-5780

On Oct 15, 2015, at 1:30 PM, "Deitz, Randy" <[Deitz.Randy@epa.gov](mailto:Deitz.Randy@epa.gov)> wrote:

Yes, I am OK with the statement and the text highlighted in green. Thank you.

Randy Deitz

Attorney Advisor

Office of Solid Waste and Emergency Response

(202) 566-0197

**From:** Stalcup, Dana

**Sent:** Thursday, October 15, 2015 1:26 PM

**To:** Deitz, Randy; StClair, Christie

**Cc:** Ostrander, David; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Ostrander, David; Zito, Kelly; Keener, Bill; Gray, David; Harrison, Melissa

**Subject:** RE: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

The two revised green answers look good to me; thanks – Dana S

Dana Stalcup

Director, Assessment and Remediation Division

OSWER/Office of Superfund Remediation and Technology Innovation (OSRTI)

Desk – 703-603-8702

Cell – 202-309-5473

**From:** Deitz, Randy

**Sent:** Thursday, October 15, 2015 1:14 PM

**To:** StClair, Christie; Stalcup, Dana

**Cc:** Ostrander, David; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Ostrander, David; Zito, Kelly; Keener, Bill; Gray, David; Harrison, Melissa

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As long as the regions, OSRTI, and OEM are OK with the technical aspects of our responses, the OSWER AA had no comments and supports doing stakeholder notifications.

Randy Deitz

Attorney Advisor

Office of Solid Waste and Emergency Response

(202) 566-0197

**From:** StClair, Christie

**Sent:** Thursday, October 15, 2015 1:11 PM

**To:** Deitz, Randy; Stalcup, Dana  
**Cc:** Ostrander, David; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Ostrander, David; Zito, Kelly; Keener, Bill; Gray, David; Harrison, Melissa  
**Subject:** RE: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

All,

Here is a draft statement and supporting QAs for notifications. I've updated based on Dana's and Randy's suggestions – revisions are in green for review.

R9, can you handle NN Notifications?

Rebecca, please do notify CDPHE.

Please let me and Nancy know if you have any edits. I'll send a final version so that Rebecca and R9 can begin notifications.

Thanks,

Christie

**Gold King Mine Water Treatment Plant About to Commence Treatment**

The EPA announced on Sept. 23 that the agency would install a portable, temporary water treatment system in Gladstone, CO. The system is intended to continue treating water discharged from the Gold King Mine during winter 2015-16. This system will replace temporary settling ponds constructed by the EPA in August 2015. The transition to the portable treatment system is necessary as winter temperatures at the mine site (elevation 10,500 feet) can reach -20F, making it unsafe to manually treat water at the mine site.

I'm writing to notify you that all the major components for the water treatment plant are now on-site. Pipe has been run from the Gold King Mine treatment ponds down to the Gladstone site. We are now connecting all the components, and anticipate that water will start flowing on tomorrow (Friday, Oct. 16). It will then take about a week to fully adjust the treatment system for optimal performance.

Additional details on the water treatment plant and future plans are contained in the Q&A below.

For the Sept. 23 press release on the water treatment plant, please visit:  
<http://www2.epa.gov/goldkingmine/september-23-2015-epa-announces-gold-king-mine-water-treatment-system-winter-2015-16>

For regular updates on Gold King Mine activities, please visit: <http://www2.epa.gov/goldkingmine>

**Q: Exactly where is the treatment plant going to be installed?**

The plant will be installed at the Gladstone, CO command post area, about 10 miles north of Silverton, CO and the junction of Country Rtes 110 and 35.

**Q: How will the plant treat the toxic wastewater? (i.e. what is the exact process by which the toxic material will be removed from the water?)**

Here is basic technical information provided by the sub-contractor, based on their experience they are confident that the plant design will achieve:

- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Discharging treated water from the system will have a neutral pH in the range of between 6.0 and 9.0 pH units. (pH, or the acidity of a fluid ranges from 0.0 for acid to 14.0 for caustic fluids and neutral is 7.0)
- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Dissolved solids will be reduced by removal of metals and formation of metal hydroxide sludge.
- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Total solids will be reduced by coagulation, flocculation, and settling through the clarifier.
- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Color is currently caused primarily by iron oxidation, and staining is caused both by iron and manganese in the mine water forming precipitates on rocks and in sediments. The treatment process will remove both iron and manganese by more than 90%, reducing the potential for color.

**Q: After treatment, will the water be of high enough quality for drinking?**

This plant is not designed to output drinking quality water; see EPA's September 23, 2015 press release for more detail on intent and purpose.

**Q: What is the cleanup rate for total and dissolved metals?**

## Deliberative Process/Ex. 5

**Q: When will it start operating?**

All the major components for the water treatment plant are now on-site. Pipe has been run from the Gold King Mine treatment ponds down to the Gladstone site. We are now connecting all the components, and anticipate that water will start flowing on Friday, Oct. 16. It will then take about a week to fully adjust the treatment system for optimal performance.

**Q: Will the treatment plant address contaminated water spilling from sites other than Gold King Mine?**

Please keep in mind that the water treatment plant is addressing only discharge from Gold King Mine. It will make some improvement in water quality in Cement Creek, but is not intended to be a

solution to the broader problem of discharging mine in the Upper Animas. Mines in the area have been releasing contaminated mine wastewater into the environment for decades, and addressing the situation is a complicated problem. (The Red and Bonita Mine, for example, continues to discharge at 350 gpm directly into Cement Creek.)

**Q: What are the next steps for long-term improvement to the Upper Animas region?**

EPA's immediate focus has been on getting the temporary treatment system constructed and operating at the Gold King Mine.

**Deliberative Process/Ex. 5**

# Deliberative Process/Ex. 5

**Christie St. Clair**

Office of Public Affairs

Environmental Protection Agency

Washington, DC

o: 202-564-2880

m: 202-768-5780

**From:** Deitz, Randy

**Sent:** Thursday, October 15, 2015 1:09 PM

**To:** Stalcup, Dana <[Stalcup.Dana@epa.gov](mailto:Stalcup.Dana@epa.gov)>; StClair, Christie <[StClair.Christie@epa.gov](mailto:StClair.Christie@epa.gov)>

**Cc:** Ostrander, David <Ostrander.David@epa.gov>; Williams, Laura <williams.laura@epa.gov>; Smith, Paula <Smith.Paula@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cohen, Nancy <Cohen.Nancy@epa.gov>; Levine, Carolyn <Levine.Carolyn@epa.gov>; Vaught, Laura <Vaught.Laura@epa.gov>; Russo, Rebecca <Russo.Rebecca@epa.gov>; Card, Joan <Card.Joan@epa.gov>; Distefano, Nichole <DiStefano.Nichole@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; McGrath, Shaun <McGrath.Shaun@epa.gov>; Lee, Monica <Lee.Monica@epa.gov>; Natarajan, Nitin <Natarajan.Nitin@epa.gov>; Woolford, James <Woolford.James@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; Stanislaus, Mathy <Stanislaus.Mathy@epa.gov>; Hull, George <Hull.George@epa.gov>; Ostrander, David <Ostrander.David@epa.gov>; Zito, Kelly <ZITO.KELLY@EPA.GOV>; Keener, Bill <Keener.Bill@epa.gov>; Gray, David <gray.david@epa.gov>  
**Subject:** RE: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

# Deliberative Process/Ex. 5

Randy Deitz

Attorney Advisor

Office of Solid Waste and Emergency Response

(202) 566-0197

**From:** Stalcup, Dana

**Sent:** Thursday, October 15, 2015 12:56 PM

**To:** StClair, Christie

**Cc:** Ostrander, David; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; Deitz, Randy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Ostrander, David; Zito, Kelly; Keener, Bill; Gray, David

**Subject:** RE: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

Thanks for folding these together.

## **Deliberative Process/Ex. 5**

On the second green question on long-term improvements, the response looks fine, but I have a couple of observations/thoughts:

## **Deliberative Process/Ex. 5**

Thanks – Dana S

Dana Stalcup

Director, Assessment and Remediation Division

OSWER/Office of Superfund Remediation and Technology Innovation (OSRTI)

Desk – 703-603-8702

Cell – 202-309-5473

**From:** StClair, Christie

**Sent:** Thursday, October 15, 2015 12:35 PM

**Cc:** Ostrander, David; Stalcup, Dana; Williams, Laura; Smith, Paula; Bassler, Rachel; Cohen, Nancy; Levine, Carolyn; Vaught, Laura; Russo, Rebecca; Card, Joan; Distefano, Nichole; Grantham, Nancy; Deitz, Randy; McGrath, Shaun; Lee, Monica; Natarajan, Nitin; Woolford, James; Cheatham, Reggie; Stanislaus, Mathy; Hull, George; Stalcup, Dana; Ostrander, David; Zito, Kelly; Keener, Bill; Gray, David

**Subject:** RE: COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

Plus David Gray

**Christie St. Clair**

Office of Public Affairs

Environmental Protection Agency

Washington, DC

o: 202-564-2880

m: 202-768-5780

**From:** StClair, Christie

**Sent:** Thursday, October 15, 2015 12:23 PM

**Cc:** Ostrander, David <[Ostrander.David@epa.gov](mailto:Ostrander.David@epa.gov)>; Stalcup, Dana <[Stalcup.Dana@epa.gov](mailto:Stalcup.Dana@epa.gov)>; Williams, Laura <[williams.laura@epa.gov](mailto:williams.laura@epa.gov)>; Smith, Paula <[Smith.Paula@epa.gov](mailto:Smith.Paula@epa.gov)>; Bassler, Rachel <[Bassler.Rachel@epa.gov](mailto:Bassler.Rachel@epa.gov)>; Cohen, Nancy <[Cohen.Nancy@epa.gov](mailto:Cohen.Nancy@epa.gov)>; Levine, Carolyn <[Levine.Carolyn@epa.gov](mailto:Levine.Carolyn@epa.gov)>; Vaught, Laura <[Vaught.Laura@epa.gov](mailto:Vaught.Laura@epa.gov)>; Russo, Rebecca <[Russo.Rebecca@epa.gov](mailto:Russo.Rebecca@epa.gov)>; Card, Joan <[Card.Joan@epa.gov](mailto:Card.Joan@epa.gov)>; Distefano, Nichole <[DiStefano.Nichole@epa.gov](mailto:DiStefano.Nichole@epa.gov)>; Grantham, Nancy <[Grantham.Nancy@epa.gov](mailto:Grantham.Nancy@epa.gov)>; Deitz, Randy <[Deitz.Randy@epa.gov](mailto:Deitz.Randy@epa.gov)>; McGrath, Shaun <[McGrath.Shaun@epa.gov](mailto:McGrath.Shaun@epa.gov)>; Lee, Monica <[Lee.Monica@epa.gov](mailto:Lee.Monica@epa.gov)>; Natarajan, Nitin <[Natarajan.Nitin@epa.gov](mailto:Natarajan.Nitin@epa.gov)>; Woolford, James <[Woolford.James@epa.gov](mailto:Woolford.James@epa.gov)>;

Cheatham, Reggie <[cheatham.reggie@epa.gov](mailto:cheatham.reggie@epa.gov)>; Stanislaus, Mathy <[Stanislaus.Mathy@epa.gov](mailto:Stanislaus.Mathy@epa.gov)>; Hull, George <[Hull.George@epa.gov](mailto:Hull.George@epa.gov)>; Stalcup, Dana <[Stalcup.Dana@epa.gov](mailto:Stalcup.Dana@epa.gov)>; Ostrander, David <[Ostrander.David@epa.gov](mailto:Ostrander.David@epa.gov)>; Zito, Kelly <[ZITO.KELLY@EPA.GOV](mailto:ZITO.KELLY@EPA.GOV)>; Keener, Bill <[Keener.Bill@epa.gov](mailto:Keener.Bill@epa.gov)>  
**Subject:** COMBINING THREADS: Water Treatment QAs (for media, site visit, external notifications)

All,

There are two email threads circulating right now, covering the same ground. I'm combining the cc list for both the Associated Press and Gold King Mine – Water Treatment threads. Please loop anybody else needed.

Here is an updated Q&A for use with current media inquiries (AP and Denver Post both writing on this today), new media inquiries that will come in, today's GKM site visit, and notifications to states, tribes and local stakeholders.

This update deletes contact referrals to CDPHE.

# Deliberative Process/Ex. 5

Nancy and I are meeting in a moment to discuss.

Thanks,

Christie

# **Deliberative Process/Ex. 5**

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**Christie St. Clair**

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Environmental Protection Agency

Washington, DC

o: 202-564-2880

m: 202-768-5780